

ABSTRACT OF THE DISCLOSURE

A free page extracting unit extracts a free page of a non-volatile memory. A directory page writing unit writes, to the free page extracted by the free page extracting unit, a directory that includes a logical page/physical page translation table of a page to which updated data are to be written. Further, a data page writing unit writes updated data to the free page extracted by the free page extracting unit. Therefore, even when data updating operation is interrupted, loss of the original data can be prevented, and the data before updating can be recovered.

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